

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L1 | 1 | (381/355-362).ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:28 |
| L2 | 1 | "381"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:28 |
| L3 | 0 | "379"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:28 |
| L4 | 0 | "455"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) near2 (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:29 |
| L5 | 0 | "455"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:29 |
| L6 | 1 | "381"/\$.ccls. and microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:30 |
| L7 | 2 | microphone same ((plurality near2 openings) with (form\$3 creat\$3) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:29 |
| L8 | 6 | "381"/\$.ccls. and microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:37 |
| L9 | 1 | "379"/\$.ccls. and microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:37 |

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| L10 | 0 | "455"/\$.ccls. and microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:38 |
| L11 | 8 | microphone same ((plurality near2 openings) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:39 |
| L12 | 4489 | ((plurality near2 openings) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:39 |
| L13 | 11 | "381"/\$.ccls. and ((plurality near2 openings) with ((one single) with (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:40 |
| L14 | 30 | "381"/\$.ccls. and ((openings) with ((one single) near2 (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:47 |
| L15 | 3 | "455"/\$.ccls. and ((openings) with ((one single) near2 (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:48 |
| L16 | 41 | "381"/\$.ccls. and ((openings gaps ports entrance\$1) with ((one single) near2 (inlet path passageway passage))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:56 |
| L18 | 16 | ("4434507").URPN. | USPAT | OR | OFF | 2007/07/21 16:51 |
| L19 | 7 | ("2838127" "2840694" "3564416" "4344184").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/07/21 16:55 |
| L20 | 1648 | (openings gaps ports entrance\$1) with ((mak\$3 form\$3 creat\$3) near3 (one single) near2 (inlet path passageway passage)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:58 |
| L21 | 3 | ((openings gaps ports entrance\$1) with ((mak\$3 form\$3 creat\$3) near3 (one single) near2 (inlet path passageway passage))) same microphone | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:59 |

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| L22 | 13 | "381"/\$.ccls. and ((mak\$3 form\$3 creat\$3) near3 (one single) near2 (inlet path passageway passage)) same microphone | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:59 |
| L23 | 115 | (381/355-362).ccls. and microphone with (one single) with (path inlet passage passageway) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 17:06 |
| L24 | 0 | ("2928490").URPN. | USPAT | OR | OFF | 2007/07/21 17:09 |
| L25 | 0 | ("2928490").URPN. | USPAT | OR | OFF | 2007/07/21 17:09 |
| L26 | 0 | ("2928490").URPN. | USPAT | OR | OFF | 2007/07/21 17:09 |
| L28 | 2 | tortuous adj2 (open\$3 or inlet) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2007/07/21 17:30 |
| L29 | 1 | L28 and (inlet same upper same lower) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2007/07/21 17:30 |
| S1 | 1 | ("5491478").PN. | USPAT; USOCR | OR | OFF | 2004/11/08 17:42 |
| S3 | 1 | macrae.in. and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 15:50 |
| S4 | 79 | "M/A-COM".AS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 15:50 |
| S5 | 367 | (381/111).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/11/04 13:55 |
| S6 | 398 | (portable adj2 radio) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:44 |
| S7 | 0 | (portable adj2 radio) same microphone same tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:24 |
| S8 | 9 | (portable adj2 radio) same microphone same (wind\$3 or twist\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:27 |
| S9 | 30 | "4718110".URPN. | USPAT | OR | OFF | 2004/10/08 13:26 |
| S10 | 1 | microphone same (tortuous adj2 path) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 15:48 |
| S11 | 6 | "3652810".URPN. | USPAT | OR | OFF | 2004/10/08 13:28 |

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|-----|------|---|---|----|-----|------------------|
| S12 | 0 | ((mobile or cell\$6) adj2 phone) same microphone same tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:46 |
| S13 | 5 | ((mobile or cell\$6) adj2 phone) same microphone same twist\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:46 |
| S14 | 3 | ((mobile or cell\$6) adj2 phone) same microphone same inlet | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 14:14 |
| S15 | 116 | microphone adj2 enclosure | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 14:38 |
| S16 | 0 | ((mobile or cell\$6) adj2 phone) same (upper near3 lower near3 converg\$5 near2 microphone) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:50 |
| S17 | 2 | ((mobile or cell\$6) adj2 phone) same (upper near3 lower near3 microphone) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:51 |
| S18 | 2593 | ((mobile or cell\$6) adj2 phone) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/08 13:54 |
| S19 | 76 | ((mobile or cell\$6) adj2 phone) same microphone same (inlet or opening) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/10 18:10 |
| S20 | 492 | (381/112-117).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/10/22 10:28 |
| S21 | 14 | microphone adj2 enclosure same open\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 17:25 |
| S22 | 29 | ((mobile or cell\$6) adj2 phone) same microphone same (inlet or opening) and upper same lower | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:24 |
| S23 | 72 | ((mobile or cell\$6) adj2 phone) same microphone same upper same lower | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/10 18:12 |
| S24 | 8 | (381/111-117).ccls. and plurality adj2 openin\$2 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:30 |
| S25 | 46 | ("381"/\$).ccls. and microphone same (plurality adj2 openin\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:30 |
| S26 | 4 | microphone same (inlet) same (plurality adj2 openi\$4) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:35 |

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|-----|------|--|---------------------------------|----|-----|------------------|
| S27 | 1654 | ("455"/\$).ccls. and microphone same (plurality of open\$4) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 09:37 |
| S28 | 867 | ("455"/\$).ccls. and microphone same (plurality of open\$4) and phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:36 |
| S29 | 322 | ("455"/\$).ccls. and microphone same (plurality of open\$4) same phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:37 |
| S30 | 2 | ("455"/\$).ccls. and microphone same (plurality adj2 open\$4) same phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:37 |
| S31 | 20 | ("455"/\$).ccls. and microphone same (plurality adj2 open\$4) and phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 14:51 |
| S32 | 6 | ("455"/\$).ccls. and (microphone adj2 por\$2) same phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:48 |
| S33 | 53 | ("455"/\$).ccls. and (microphone adj2 por\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/22 10:48 |
| S34 | 0 | (microphone adj2 cas\$3) same tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:04 |
| S35 | 4 | (microphone adj2 cas\$3) same (twist\$3 or bend\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:05 |
| S36 | 120 | tortuous adj2 (open\$3 or inlet) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:06 |
| S37 | 1 | tortuous adj2 (open\$3 or inlet) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2007/07/21 17:30 |
| S38 | 490 | (381/355,361).ccls. and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 15:12 |
| S40 | 26 | (381/355,361).ccls. and microphone same inlet | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 12:04 |
| S41 | 9 | (radio adj2 telephon\$2) same microphone same (inlet or por\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:16 |
| S42 | 8 | (radio adj2 telephon\$2) same microphone same (inlet or port) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:16 |

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|-----|-----|---|---------------------------------|----|-----|------------------|
| S43 | 0 | (radio adj2 telephon\$2) same microphone same (twist\$3 near2 path) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:17 |
| S44 | 0 | (radio adj2 telephon\$2) same microphone same (bend\$3 near2 path) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:17 |
| S45 | 0 | (radio adj2 telephon\$2) same microphone same (Twist\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:17 |
| S46 | 2 | (radio adj2 telephon\$2) same microphone same (bend\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/28 17:18 |
| S47 | 16 | (portable adj2 radio) same microphone same (inlet or por\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:48 |
| S48 | 62 | (381/111,122).ccls. and (inlet or port) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 09:26 |
| S49 | 1 | ("20030036367").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/10/29 09:26 |
| S50 | 2 | macrae.in. and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 09:36 |
| S51 | 544 | ("455"/\$).ccls. and microphone same (inlet or port) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 09:37 |
| S52 | 141 | ("455"/\$).ccls. and microphone same (inlet or port) same antenna | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 10:36 |

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| S53 | 54 | ("3912875" "4122304" "4658096" "4659878" "4718080" "4737975" "4748655" "4768218" "4768220" "4775997" "4790000" "4802235" "4811420" "4826421" "4850033" "4881271" "4922517" "4939766" "4959851" "4972455" "4989230" "5008925" "5020091" "5020092" "5020093" "5046082" "5046085" "5093925" "5117450" "5127042" "5131029" "5146486" "5148548" "5153904" "5157719" "5159625" "5175872" "5179721" "5203012" "5208847" "5247565" "5274693" "5276729" "5305372" "5402481" "5422945" "5509056" "5535260" "5550907" "5563931" "5594782" "5722087" "5963875" "6021335").PN. | USPAT | OR | OFF | 2004/10/29 09:46 |
| S54 | 20 | "5933330".URPN. | USPAT | OR | OFF | 2004/10/29 10:25 |
| S55 | 1 | ("6611697").PN. | USPAT; USOCR | OR | OFF | 2004/10/29 10:33 |
| S56 | 20 | (portable adj3 radio) same microphone same (inlet or port) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 15:25 |
| S57 | 1 | (portable adj3 radio) same (microphone adj2 gasket) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 10:46 |
| S58 | 1 | (portable adj3 radio) same (microphone adj2 seal) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 10:47 |
| S59 | 1 | (portable adj3 radio) same (microphone near2 seal) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:10 |
| S60 | 4 | (portable adj3 radio) and (microphone near2 seal) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 10:48 |
| S61 | 0 | "5933765".URPN. | USPAT | OR | OFF | 2004/10/29 10:48 |
| S62 | 5 | ("4959510" "4970780" "5011256" "5019944" "5565261").PN. | USPAT | OR | OFF | 2004/10/29 10:48 |
| S63 | 455 | (portable adj3 radio) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 14:39 |

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| S64 | 1 | (portable adj3 radio) same (microphone near3 protect\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 14:19 |
| S65 | 16 | (portable adj3 radio) and (microphone near3 protect\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:10 |
| S66 | 13 | (radiotelephone) and (microphone near5 protect\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 10:57 |
| S67 | 25 | (cellu\$3 adj2 phone) and (microphone near5 protect\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:00 |
| S68 | 6 | "5828012".URPN. | USPAT | OR | OFF | 2004/10/29 11:02 |
| S69 | 13 | (mobile adj2 phone) and (microphone near5 protect\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:03 |
| S70 | 135 | (microphone near3 protect\$3) and (portable or mobile or cellu\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:46 |
| S71 | 2 | (microphone near3 protect\$3) and (portable or mobile or cellu\$3) and (upper adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:46 |
| S72 | 1 | (microphone near3 protect\$3) same (upper adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:47 |
| S73 | 2 | (microphone near3 protect\$3) and (upper adj3 cas\$3) and (lower adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:48 |
| S74 | 18 | (radiotelephone) and (upper adj3 cas\$3) and (lower adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:49 |
| S75 | 153 | (mobile adj2 phone) and (upper adj3 cas\$3) and (lower adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:48 |
| S76 | 136 | (mobile adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:51 |
| S77 | 16 | (radiotelephone) and (upper adj3 cas\$3) same (lower adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:49 |
| S78 | 7 | (mobile adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:56 |
| S79 | 14 | (cellular adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:55 |

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| S80 | 0 | (upper adj3 cas\$3) same (lower adj3 cas\$3) same (converge or meet) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:55 |
| S81 | 27 | (upper adj3 cas\$3) same (lower adj3 cas\$3) near3 microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:01 |
| S82 | 0 | (mobile adj2 phone) and (microphone near2 middle near2 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:57 |
| S83 | 1 | (radiotelephone) and (microphone same mid\$3 same cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:57 |
| S84 | 14 | (cellular adj2 phone) and (microphone same mid\$3 same cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:58 |
| S85 | 9 | (mobile adj2 phone) and (microphone same mid\$3 same cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 11:59 |
| S86 | 2 | (portable or mobile or cellu\$3) and (microphone near2 mid\$3 near3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:01 |
| S87 | 0 | microphone near2 middle near3 cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:00 |
| S88 | 2 | microphone near3 middle near3 cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:00 |
| S89 | 17 | (portable or mobile or cellu\$3) and (microphone near2 middle) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:02 |
| S90 | 2 | (portable or mobile or cellu\$3) and (microphone near2 midway) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:02 |
| S91 | 86 | (portable or mobile or cellu\$3) and (microphone near2 center) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:12 |
| S92 | 0 | microphone near3 mount\$3 near4 middle near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:13 |
| S93 | 0 | microphone near3 dispos\$3 near4 middle near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:36 |
| S94 | 0 | microphone near3 dispos\$3 near4 center near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:14 |

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|----------|-----|---|----------------------------------|----|-----|------------------|
| S95 | 0 | microphone near3 mount\$3 near4 center near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:14 |
| S96 | 0 | microphone near3 plac\$3 near4 center near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:14 |
| S97 | 12 | microphone near3 above near3 (keypad or keyboard or keys) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:17 |
| S98 | 10 | microphone near3 top near3 (keypad or keyboard or keys) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 12:18 |
| S99 | 34 | microphone near3 upper near3 cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:07 |
| S10 0 | 0 | microphone near2 between near3 upper near3 cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:03 |
| S10 1 | 102 | (379/433.03).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/10/29 13:09 |
| S10 2 | 83 | (379/433.03).ccls. and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:09 |
| S10 3 | 6 | "6108416".URPN. | USPAT | OR | OFF | 2004/10/29 13:16 |
| S10 4 | 5 | "5692046".URPN. | USPAT | OR | OFF | 2004/10/29 13:33 |
| S10 5 | 13 | ("3476886" "4018998" "4446333" "4684017" "4840288" "5189632" "5221838" "5325984" "5335273" "5348347" "5436969" "5465401" "5535439").PN. | USPAT | OR | OFF | 2004/10/29 13:34 |
| S10 6 | 0 | microphone near3 dispos\$3 near4 top near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:36 |
| S10 7 | 6 | microphone near3 top near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:37 |
| S10 8 | 1 | microphone near3 middle near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:45 |
| S10 9 | 0 | microphone near3 middle near5 telephone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:38 |

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|----------|-----|---|---------------------------------|----|-----|------------------|
| S11 0 | 0 | microphone near3 middle near5 handset | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:39 |
| S11 1 | 0 | microphone near3 middle near5 radio | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:41 |
| S11 2 | 2 | microphone near3 middle near5 cover | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:42 |
| S11 3 | 1 | microphone near4 middle near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:49 |
| S11 4 | 0 | microphone near4 middle near5 enclosure | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:44 |
| S11 5 | 1 | microphone near3 center near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:45 |
| S11 6 | 3 | microphone near3 center near5 radio | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:45 |
| S11 7 | 1 | microphone near4 intermediate near5 phone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:49 |
| S11 8 | 3 | microphone near4 intermediate near5 radio | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:49 |
| S11 9 | 175 | (cellular adj2 phone) and (upper adj3 cas\$3) same (lower adj3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 13:54 |
| S12 0 | 455 | (portable adj3 radio) same (microphone) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 14:19 |
| S12 1 | 0 | twist\$3 adj2 microphone adj2 inlet | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 14:39 |
| S12 2 | 0 | tortuous adj2 microphone adj2 port | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 14:40 |
| S12 3 | 0 | twist\$3 adj2 microphone adj2 port | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 15:11 |
| S12 4 | 2 | ((("6201876") or ("5491478")).PN. | USPAT; USOCR | OR | OFF | 2004/10/29 15:12 |
| S12 5 | 44 | (381/355,361).ccls. and seal\$3 and (por\$2 or inlet or (sound adj2 openin\$2)) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:00 |

EAST Search History

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|----------|------|---|---|----|-----|------------------|
| S12 6 | 15 | ("4500595" "4533795" "4912604" "4945633" "4983148" "5006667" "5271056" "5284888" "5365410" "5400949" "5442521" "5603103" "5640457" "5687470" "5708720").PN. | USPAT | OR | OFF | 2004/10/29 15:14 |
| S12 7 | 3 | "5491478".URPN. | USPAT | OR | OFF | 2004/10/29 15:17 |
| S12 8 | 182 | (portable adj3 radio) same microphone same antenna | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 15:25 |
| S12 9 | 34 | (381/355,361).ccls. and seal\$3 near3 microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/10/29 15:34 |
| S13 0 | 663 | (381/355,361).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/10/29 15:44 |
| S13 1 | 2 | ("4920564" "5265274").PN. | USPAT | OR | OFF | 2004/10/29 16:22 |
| S13 2 | 1 | ("5422656").PN. | USPAT; USOCR | OR | OFF | 2004/10/29 18:15 |
| S13 3 | 1 | ("5422656").PN. | USPAT; USOCR | OR | OFF | 2004/11/04 13:53 |
| S13 4 | 0 | ("radiosamemicrophonesamecas\$3")PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/11/04 13:55 |
| S13 5 | 1124 | radio same microphone same cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 13:55 |
| S13 6 | 83 | portable near2 radio same microphone same cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 17:27 |
| S13 7 | 1 | (microphone adj2 enclosure) same antenna | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 14:39 |
| S13 8 | 819 | (455/575.1).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/11/04 14:51 |
| S13 9 | 112 | (455/575.1).ccls. and microphone same cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 15:15 |

EAST Search History

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|----------|------|---|---------------------------------|----|-----|------------------|
| S14 0 | 11 | ("4059728" "5138329" "5168982" "5610971" "5692032" "5794142" "5841849" "5852783" "5937360" "5966671" "5987336").PN. | USPAT | OR | OFF | 2004/11/04 15:13 |
| S14 1 | 4 | "6349220".URPN. | USPAT | OR | OFF | 2004/11/04 15:14 |
| S14 2 | 39 | ("455"/\$).cccls. and microphone near3 (middle or midway or center) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 15:16 |
| S14 3 | 384 | "nokia".AS. and radiotelephon\$2 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 15:41 |
| S14 4 | 18 | "6188765".URPN. | USPAT | OR | OFF | 2004/11/04 15:28 |
| S14 5 | 2 | ("5933330" "5987122").PN. | USPAT | OR | OFF | 2004/11/04 15:29 |
| S14 6 | 0 | "nokia".AS. and microphone near3 (middle or midway or center) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 15:42 |
| S14 7 | 0 | "nokia".AS. and microphone near3 (middle) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 15:42 |
| S14 8 | 14 | "nokia".AS. and microphone near3 cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 15:45 |
| S14 9 | 1 | ("6201876").PN. | USPAT; USOCR | OR | OFF | 2004/11/04 15:45 |
| S15 0 | 966 | microphone adj3 cas\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 17:25 |
| S15 1 | 75 | (microphone adj3 cas\$3) same portable | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 17:36 |
| S15 2 | 2233 | (microphone near3 cas\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 17:36 |
| S15 3 | 2320 | microphone near3 (case or casing or enclosure) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 17:37 |
| S15 4 | 154 | microphone near3 (case or casing or enclosure) same portable | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 17:42 |
| S15 5 | 5768 | (mobile or cellular) adj2 phone same (case or casing or enclosure) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 17:42 |

EAST Search History

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|----------|------|---|---------------------------------|----|-----|------------------|
| S15 6 | 350 | (mobile or cellular) adj2 phone same (case or casing or enclosure) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/04/04 10:15 |
| S15 7 | 2 | "6201876".URPN. | USPAT | OR | OFF | 2004/11/04 17:59 |
| S15 8 | 15 | ("4500595" "4533795" "4912604" "4945633" "4983148" "5006667" "5271056" "5284888" "5365410" "5400949" "5442521" "5603103" "5640457" "5687470" "5708720").PN. | USPAT | OR | OFF | 2004/11/04 17:59 |
| S15 9 | 139 | (upper adj3 cas\$3) same (lower adj3 cas\$3) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:01 |
| S16 0 | 183 | (portable adj3 radio) same (microphone) same antenna | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:22 |
| S16 1 | 3528 | (radio) same (microphone) same antenna | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:15 |
| S16 2 | 996 | (radio) same (microphone) same antenna same circuit | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:16 |
| S16 3 | 300 | (portable adj3 radio) same (microphone) and antenna | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/04 18:23 |
| S16 4 | 37 | (notebook or portable) adj2 computer same antenna same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 15:00 |
| S16 5 | 8 | (wireless) adj2 computer same antenna same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 14:53 |
| S16 6 | 22 | computer near3 antenna same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 14:53 |
| S16 7 | 4 | (notebook or portable) adj2 computer same antenna near3 microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 15:37 |
| S16 8 | 788 | (notebook or portable) adj2 computer same antenna | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 14:56 |
| S16 9 | 139 | (notebook or portable) adj2 computer same antenna and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 15:19 |
| S17 0 | 1 | ("6148089").PN. | USPAT; USOCR | OR | OFF | 2004/11/08 15:20 |

EAST Search History

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|----------|-----|--|---------------------------------|----|-----|------------------|
| S17 1 | 5 | (portable) same computer same antenna near3 microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 15:38 |
| S17 2 | 649 | computer same antenna same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/11/08 17:40 |
| S17 4 | 2 | ((("6148089") or ("20030072131") or ("6525854"))).PN. | USPAT | OR | OFF | 2005/04/02 16:22 |
| S17 5 | 3 | ((("6148089") or ("20030072131") or ("6525854"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/04/02 16:22 |
| S17 6 | 286 | macrae.in. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/04/02 16:26 |
| S17 7 | 3 | MacRae.in. and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/04/04 10:04 |
| S17 8 | 55 | (381/355,361).ccls. and microphone same port | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/04/04 10:11 |
| S17 9 | 17 | (mobile or cellular) adj2 phone same (case or casing or enclosure) same microphone same port | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/04/04 10:22 |
| S18 0 | 17 | (mobile or cellular) adj2 phone same (case or casing or enclosure) same microphone same (opening or inlet) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/04/04 10:23 |
| S18 1 | 37 | phone same (case or casing or enclosure) same microphone same (opening or inlet) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/04/04 10:23 |
| S18 2 | 1 | ((("6766025") or ("20030142832"))).PN. | USPAT | OR | OFF | 2005/04/04 14:14 |
| S18 3 | 2 | ((("6766025") or ("20030142832"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/04/04 14:19 |
| S18 4 | 1 | ("6044341").PN. | US-PGPUB; USPAT | OR | OFF | 2005/04/04 14:19 |
| S18 5 | 203 | ((mobile or cell\$6) adj2 phone) same microphone same (inlet or openi\$3 or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:25 |
| S18 6 | 101 | ((mobile or cell\$6) adj2 phone) same microphone same (inlet or openings or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:26 |
| S18 7 | 0 | ((mobile or cell\$6) adj2 phone) same microphone same inlet same (openings or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:26 |
| S18 8 | 7 | ((mobile or cell\$6) adj2 phone) same microphone same (inlet or channel) same (openings or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:28 |

EAST Search History

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|----------|-----|---|---------------------------------|----|-----|------------------|
| S18 9 | 97 | ((mobile or cell\$6) adj2 phone) same microphone same (openings or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:54 |
| S19 0 | 0 | ((mobile or cell\$6) adj2 phone) same microphone same (prevent\$3 same foreign) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:55 |
| S19 1 | 3 | ((mobile or cell\$6) adj2 phone) same microphone same (foreign) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:55 |
| S19 2 | 4 | ((mobile or cell\$6) adj2 phone) same microphone same (prevent\$3 or protection) same water | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:58 |
| S19 3 | 0 | ((mobile or cell\$6) adj2 phone) same microphone same (self-draining) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 11:56 |
| S19 4 | 15 | ((mobile or cell\$6) adj2 phone) same (microphone near3 (prevent\$3 or protection)) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 12:03 |
| S19 5 | 14 | (microphone near3 (prevent\$3 or protection)) near2 water | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 12:03 |
| S19 6 | 193 | (381/355,361).ccls. and microphone same (protect\$3 or prevent\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 15:31 |
| S19 7 | 1 | (381/355,361).ccls. and microphone near3 plurality near3 (openings or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/23 13:23 |
| S19 8 | 15 | ("381"/\$).ccls. and microphone near3 plurality near3 (openings or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 15:32 |
| S19 9 | 1 | ("6148089").URPN. | USPAT | OR | OFF | 2005/11/21 15:44 |
| S20 0 | 3 | ("4850016" "5627901" "5970159").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/21 15:45 |
| S20 1 | 5 | microphone same (tortuous) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 14:30 |
| S20 2 | 3 | MacRae.in. and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 15:50 |
| S20 3 | 99 | (microphone) same ((inlet or channel) near3 (openings or ports)) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 15:51 |
| S20 4 | 3 | (portable adj2 radio) same microphone same (openings or ports) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 17:28 |

EAST Search History

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|----------|------|---|---------------------------------|----|-----|------------------|
| S20 5 | 443 | (portable adj2 radio) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 17:28 |
| S20 6 | 36 | (portable adj2 radio) same microphone same (inlet or channel) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 17:30 |
| S20 7 | 126 | ((portable or mobile) adj2 radio) same microphone same (inlet or channel) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/21 17:30 |
| S20 8 | 1 | microphone same (inlets openings ports) with (converge convergence) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:42 |
| S20 9 | 1428 | (inlets openings ports) with (converge convergence) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 14:43 |
| S21 0 | 0 | (inlets openings ports) near2 (converge convergence) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 14:34 |
| S21 1 | 9 | (inlets openings ports) near2 (converge convergence) and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 14:43 |
| S21 2 | 9 | (inlets openings ports) near2 (converge convergence meeting) and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:57 |
| S21 3 | 301 | (inlets openings ports) near2 (converge convergence) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 14:43 |
| S21 4 | 13 | (inlets openings ports) near2 (converge convergence meeting) near2 point | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:33 |
| S21 5 | 20 | (inlets openings ports) near2 (converge convergence meet\$3 adhere approach (come adj2 together)) near2 point | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:38 |
| S21 6 | 145 | (inlets openings ports) with (converge convergence meet\$3 adhere approach (come adj2 together)) near2 point | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:58 |
| S21 7 | 2 | microphone with ((converge convergence) with point) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:42 |
| S21 8 | 11 | microphone same ((converge convergence) with point) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:43 |
| S21 9 | 278 | microphone and ((converge convergence) with point) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:51 |

EAST Search History

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|----------|------|--|---------------------------------|----|-----|------------------|
| S22 0 | 0 | microphone and ((converge convergence) with point) same (inlet inlets ports openings) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/23 12:14 |
| S22 1 | 0 | (inlets openings ports) near2 (converge convergence meeting) same tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:57 |
| S22 2 | 6 | (inlets openings ports) same (converge convergence meeting) same tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:57 |
| S22 3 | 180 | (converge convergence meet\$3 adhere approach (come adj2 together)) with tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:58 |
| S22 5 | 8038 | (converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous bending winding) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:59 |
| S22 6 | 799 | (converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous bend\$3 wind\$3) same (ports inlets openings paths) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 15:59 |
| S22 7 | 84 | (converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous bend\$3 wind\$3) same (ports inlets openings paths) and (audio sound) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 16:01 |
| S22 8 | 9 | (converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous) same (ports inlets openings paths) and (audio sound) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 16:02 |
| S22 9 | 46 | (converge convergence meet\$3 adhere approach (come adj2 together)) with (tortuous) same (ports inlets openings paths) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 16:35 |
| S23 0 | 517 | (two near2 (paths inlets openings) with converg\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 16:35 |
| S23 1 | 9 | (two near2 (paths inlets openings) with converg\$5) and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 16:36 |
| S23 2 | 0 | (two near2 (paths inlets openings) with converg\$5) same tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/17 16:37 |
| S23 3 | 1 | (two near2 (paths inlets openings) with converg\$5) and tortuous | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/23 12:14 |

EAST Search History

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|----------|------|--|--|----|-----|------------------|
| S23 4 | 21 | ((path inlet lumen) with form\$6 with converg\$5) and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/18 11:58 |
| S23 5 | 1 | (converg\$5 with tortuous) and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/18 11:59 |
| S23 6 | 23 | (converg\$5 with tortuous) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/18 11:59 |
| S23 7 | 1 | ("5410608").PN. | USPAT | OR | OFF | 2006/05/23 11:37 |
| S23 8 | 3854 | microphone same (inlet inlets ports openings) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/23 12:14 |
| S23 9 | 26 | (381/355-358).ccls. and microphone same (plurality near3 (openings ports)) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/11/01 15:28 |
| S24 0 | 8 | (381/355-358).ccls. and microphone same (converg\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/23 13:38 |
| S24 1 | 14 | (381/355-358).ccls. and microphone and (converg\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/10/31 18:03 |
| S24 2 | 82 | (381/355-358).ccls. and microphone and (one near3 (path inlet passage passageway)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/01 15:28 |
| S24 3 | 95 | (381/355-362).ccls. and microphone and (one near3 (path inlet passage passageway)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/05/03 16:07 |
| S24 4 | 370 | (381/357).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/01 15:59 |
| S24 5 | 246 | S244 and microphone | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/01 15:59 |
| S24 6 | 3 | ("4850016" "5627901" "5970159").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/11/01 16:38 |
| S24 7 | 1 | ("6148089").URPN. | USPAT | OR | OFF | 2006/11/01 16:38 |

EAST Search History

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|----------|-----|--|--|----|-----|------------------|
| S24 8 | 8 | ("5251329" "5282245" "5335368" "5548824" "5682418" "5715311" "5884197" "5890072").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/11/01 16:41 |
| S24 9 | 347 | (381/355-362).ccls. and microphone same (path inlet passage passageway) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 17:06 |
| S25 0 | 16 | ("4434507").URPN. | USPAT | OR | OFF | 2006/11/01 17:36 |
| S25 1 | 7 | ("2838127" "2840694" "3564416" "4344184").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/11/01 17:39 |
| S25 2 | 1 | ("4434507").PN. | USPAT | OR | OFF | 2007/02/11 20:00 |
| S25 3 | 24 | (381/355-362).ccls. and microphone with (plurality near2 openings) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/07/21 16:26 |